PATENT

.Serial No. 09/364,317 Atty. Docket No.: 10191/1145

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace, without prejudice, all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A safety device for a stored-program control coupling a computer bus system with a peripheral bus system, a peripheral being connected to the peripheral bus system, comprising:

a controller for exchanging data with the stored-program control, the stored-program control continually executing an SPS program on a real-time operating system, the stored-program control exchanging data, via a the peripheral bus system, with a peripheral to be controlled; and

a memory for storing safety-relevant data of the stored-program control, the safety-relevant data being accessible by the controller.

- 2. (Previously Presented) The device according to claim 1, further comprising a monitor for monitoring a wake-up signal generated by the stored-program control and transmitted to the monitor by the controller.
- 3. (Previously Presented) The device according to claim 1, further comprising a contactor for providing an output signal displaying an operability of the stored-program control.
- 4. (Currently Amended) The device according to claim 2, wherein the monitor activates a data exchange with a bus controller that controls the <u>peripheral</u> bus system as a function of the wake-up signal.
- 5. (Previously Presented) The device according to claim 1, further comprising an interface for receiving at least one control signal forwarded to the stored-program control via the controller.
- 6. (Currently Amended) The device according to claim 1, further comprising a real-

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time controller for sending a control signal to a <u>the</u> computer bus system, the computer bus system allowing a data exchange to take place between the controller and the stored-program control.

- 7. (Previously Presented) The device according to claim 1, further comprising a circuit board for accommodating at least one of the controller and the memory.
- 8. (Currently Amended) A safety device for a stored-program control coupling a computer bus system with a peripheral bus system, a peripheral being connected to the peripheral bus system, comprising:

a controller for exchanging data with the stored-program control, the stored-program control continually executing an SPS program on a real-time operating system, the stored-program control exchanging data, via a the peripheral bus system, with a peripheral to be controlled; and

a monitor for monitoring a wake-up signal generated by the storedprogram control and transmitted to the monitor by the controller.

- 9. (Previously Presented) The device according to claim 8, further comprising a contactor for producing an output signal indicating an operability of the stored-program control.
- 10. (Currently Amended) The device according to claim 8, wherein the monitor activates, as a function of the wake-up signal, a bus controller, which controls a data transport via the <u>peripheral</u> bus system.
- 11. (Previously Presented) The device according to claim 8, further comprising an interface for receiving at least one control signal forwarded to the stored-program control via the controller.
- 12. (Previously Presented) The device according to claim 8, further comprising a circuit board for accommodating at least one of the controller and the monitor.

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13. (Currently Amended) A safety device for a stored-program control <u>coupling a</u> <u>computer bus system with a peripheral bus system, a peripheral being connected to the peripheral bus system, comprising:</u>

a controller for exchanging data with the stored-program control, the stored-program control continually executing an SPS program on a real-time operating system, the stored-program control exchanging data, via a the peripheral bus system, with a peripheral to be controlled; and

an interface for receiving at least one control signal forwarded to the stored-program control via the controller.

14. (Previously Presented) The device according to claim 13, further comprising a circuit board for accommodating at least one of the controller and the interface.